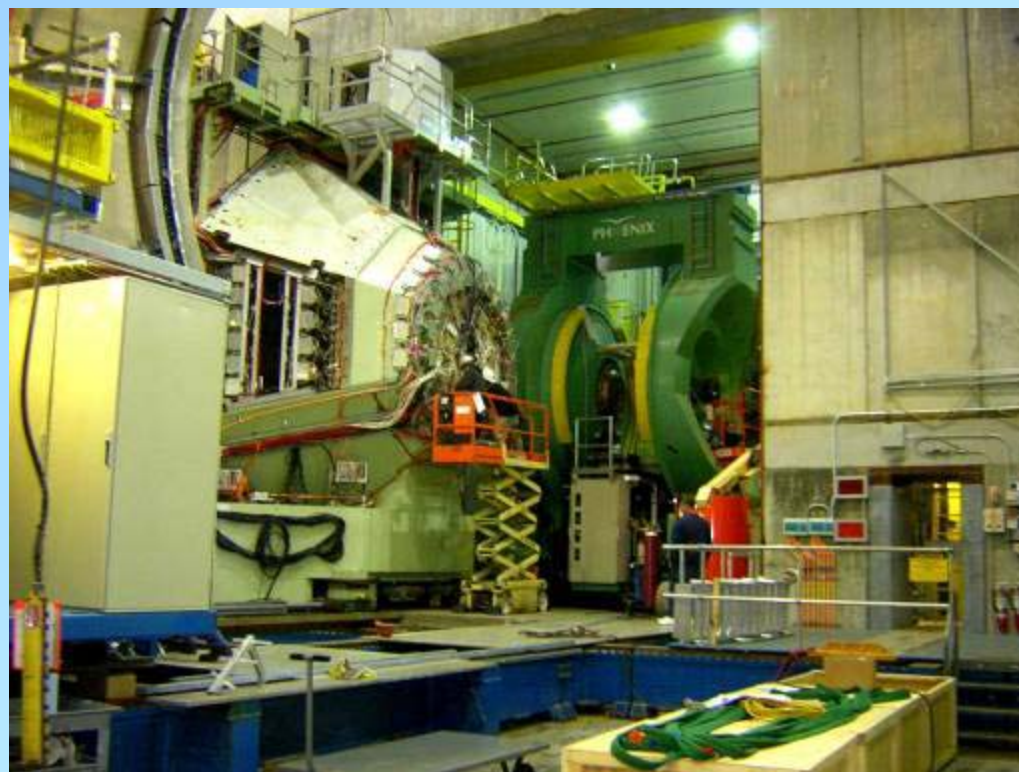


PHENIX WEEKLY PLANNING



8/26/2010
Don Lynch

8/26/2010

2010 Shutdown (Overview)

Start Date End Date

Design, Eng'g, fabrication, procurement and site preparation tasks
in support of shutdown tasks

In Progress 12/1

Shutdown Startup Tasks

Done Done

Gas system maintenance, repair and upgrade

In progress 12/1

PHENIX Infrastructure maintenance, repair and upgrade

In Progress 12/1

Remove RPC Prototypes

Done Done

Remove HBD

Done Done

Remove RXNP

Done Done

Remove/Reinstall BBC

In Progress 9/16

Remove Re-install MPC

In Progress 9/16

RPC3N & MuTrigger unfinished business

In Progress 9/30

Remove current BP, install new BP

In Progress 9/10

DC/PC maintenance and repair (mid summer)

Done 8/13

Install RPC3S (including Absorbers)

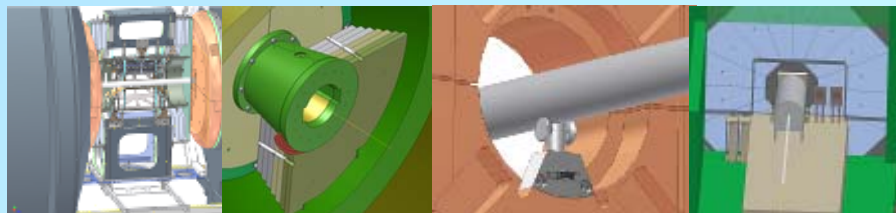
In Progress 12/1

MuTr maintenance, repair and upgrade

In Progress 8/31

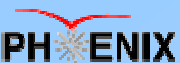
Install VTX

9/13 12/1



8/26/2010

Post Run 10 Tasks



TECHNICAL
SUPPORT
2010

Task

Start Date

End Date

Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)

In Progress

11/30

AH Crane 110 switch for lockout

In Progress

9/30

8/26/2010

This Week:

- Complete design of survey/installation tools and fixtures for VTX
- Continue fabrication of parts, installation tools and fixtures for absorber & VTX
- WP for VTX
- Continue MuTr maintenance, troubleshooting & Repair
- Continue Mu Trigger maintenance, troubleshooting & Repair
- Install W1, W2, W3 & W4 $\frac{1}{2}$ octants, upper (above MuID steel) supports & west pitch control
- Finish Locating & Welding Absorber support stubs in North Flower Pot external cavity
- Receive absorbers (final shipment) from Vendor
- Receive and modify absorber transport and rotation cart
- Begin Absorber Installation
- Future upgrades support

Next Week

TECHNICAL SUPPORT 2010

Continue fabrication of parts, installation tools and fixtures for absorber & VTX

Continue MuTr maintenance, troubleshooting & Repair

Continue Mu Trigger maintenance, troubleshooting & Repair

Install W5, W6, W7 & W8 $\frac{1}{2}$ octants, upper supports & pitch control

Finish Locating & Welding Absorber support stubs in South Flower Pot external cavity

Finish transport and rotation cart

Continue Absorber Installation

Future upgrades support



8/26/2010



8/26/2010



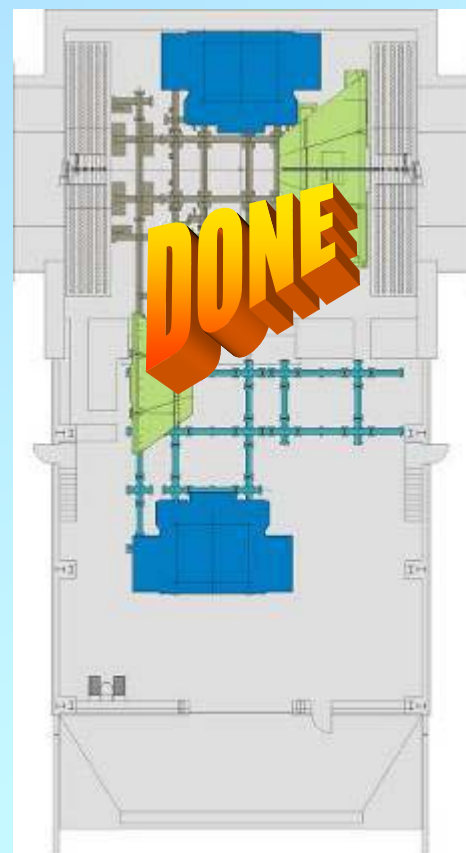
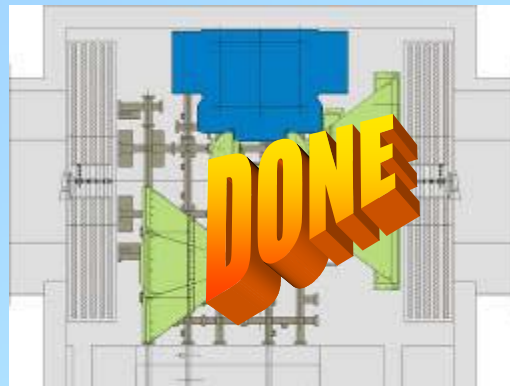
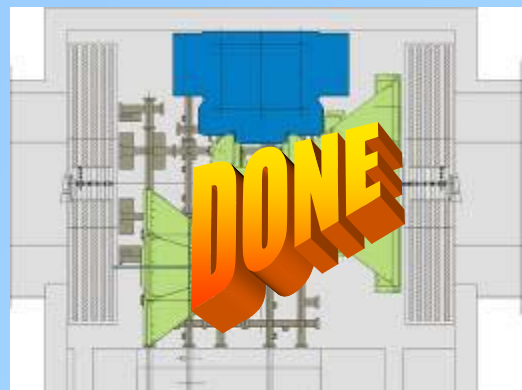
8/26/2010



8/26/2010

Removal of Existing Beampipe



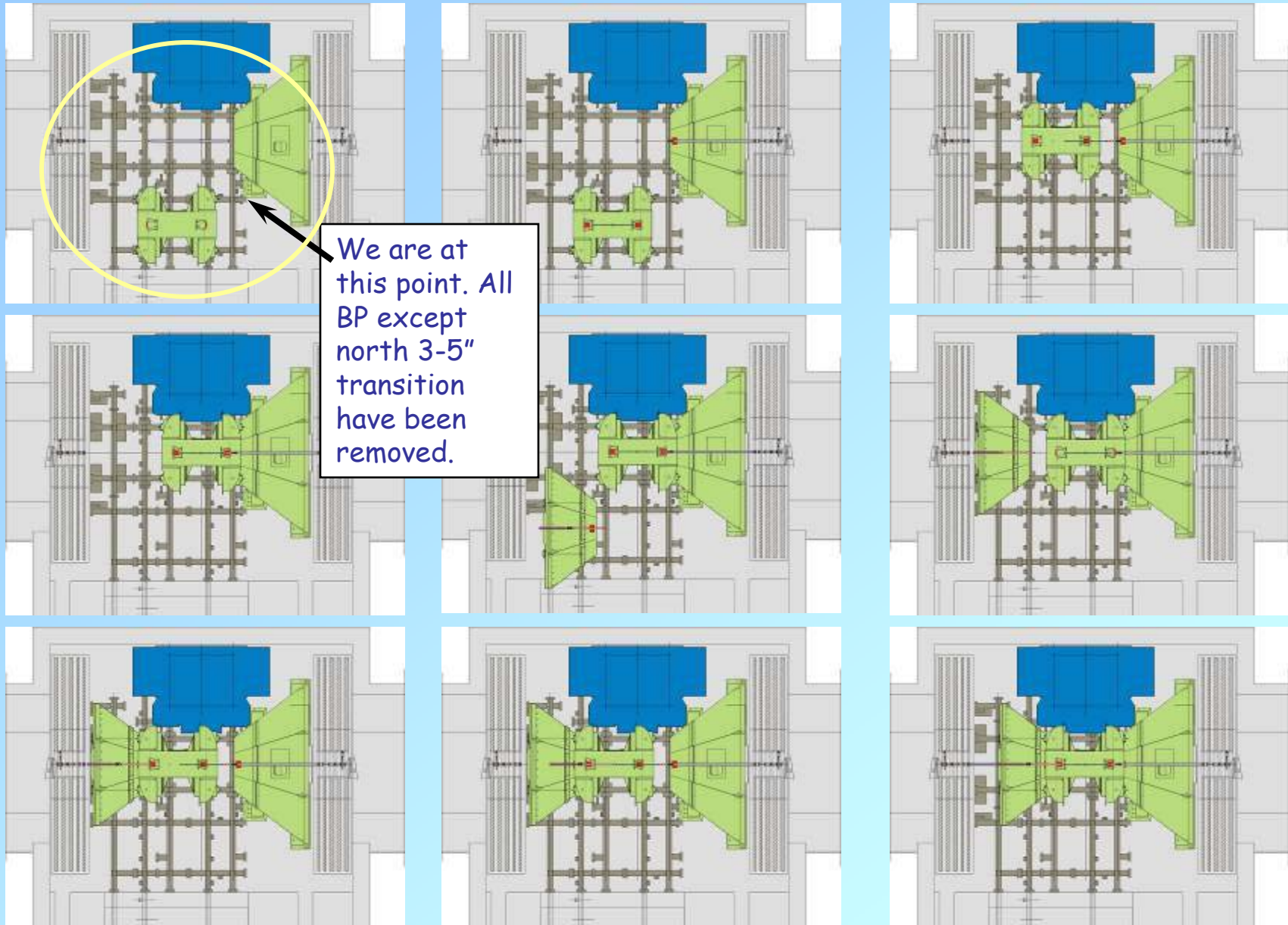


TECHNICAL SUPPORT NO-0

Installation of New Beampipe

PHENIX

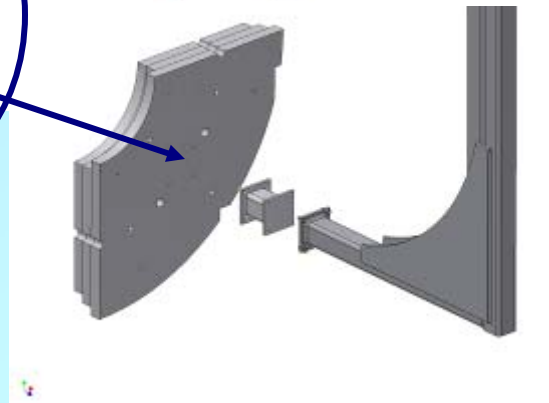
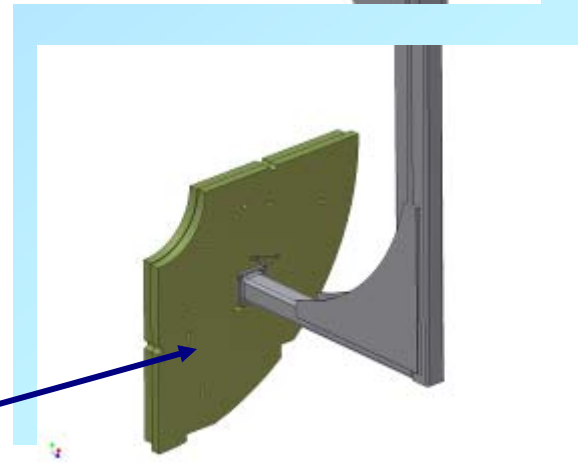
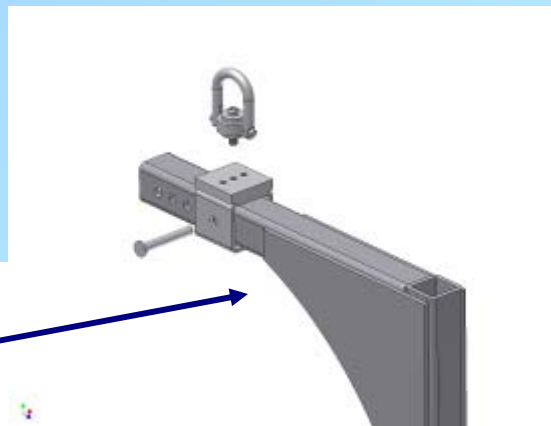
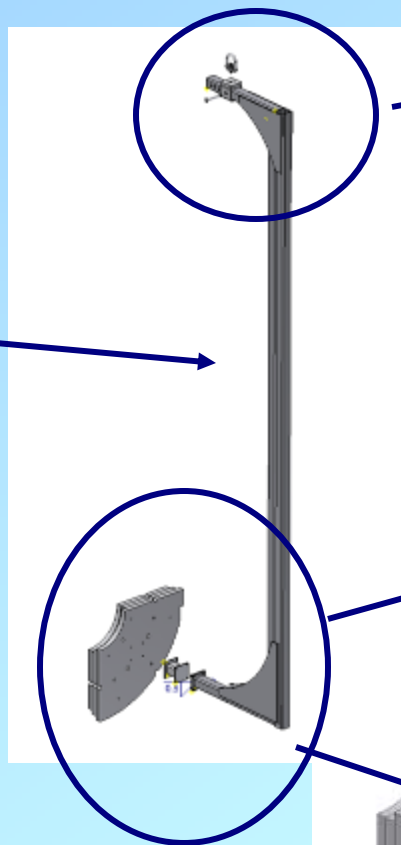
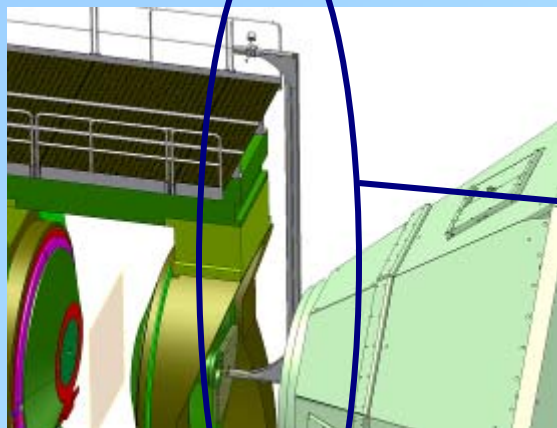
TECHNICAL SUPPORT NO-0

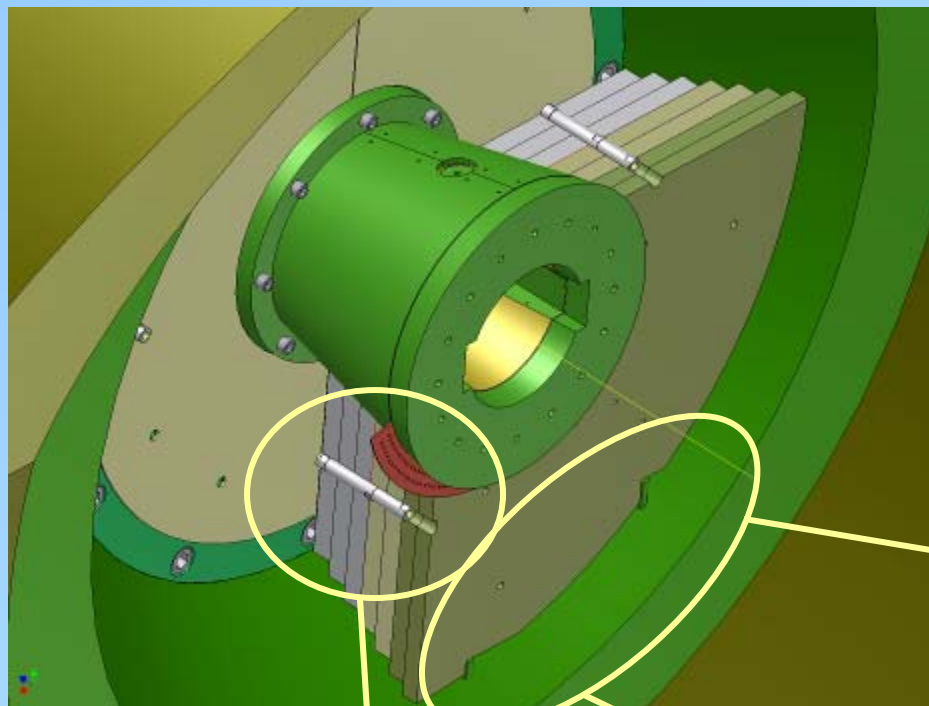


8/26/2010

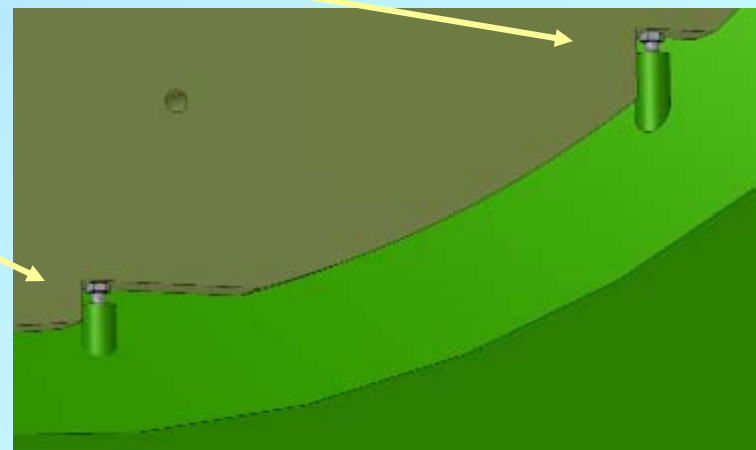
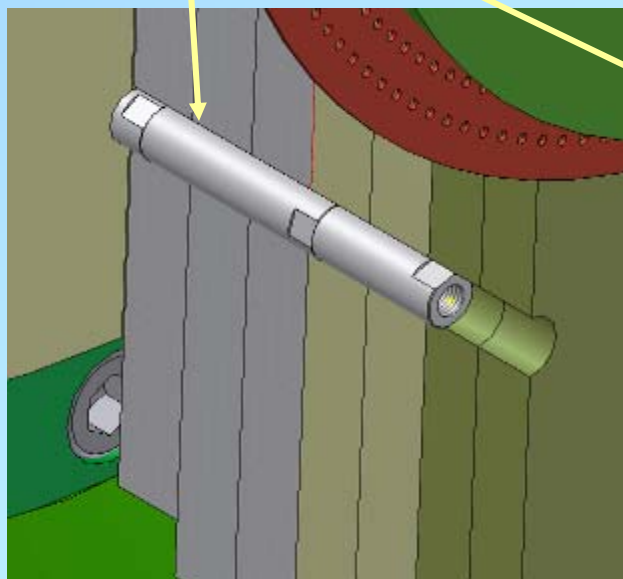
Absorber Instalation Concept

TECHNICAL SUPPORT NO-0





RPC Absorber Installation
begins next week



8/26/2010

RPC Gas System



Plumbing for straight through rack 80% done. Waiting for the flow controllers at the factory and a few fittings. Wiring will follow.

Rack for south tunnel 90% done..

Bubblers for tunnels are done and tested. Working on mixing panel.

Parts for tunnel distribution system are all here.

Temp panel for testing South chambers has been installed. First two chambers tested fine for leaks.



Couplings tested and approved

All couplings and gasket material are in my lab.

Gaskets are being cut to size.

Flow controller Re-Calibration



6 of the 7 flow controllers have been packed in a box. Still waiting for the Mutr guys to be done with the CO2 unit. Will send it out to the vendor the week of Sept 6th.

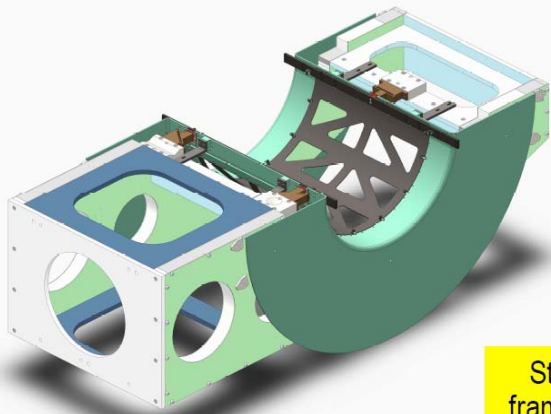
Approved purchase order and shipping memo are in the system.

VTX cooling

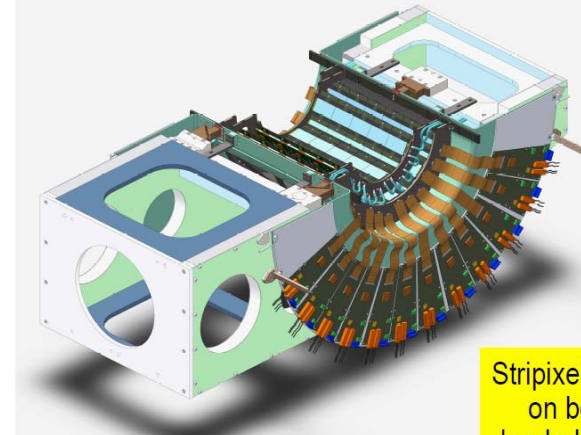
- Chillers should be here soon.
- Location of chillers has been determined.
- Parts for distribution manifold have been order. Assembly of some parts started.
- Novec web Req sent to Ed.

VTX Final Assembly

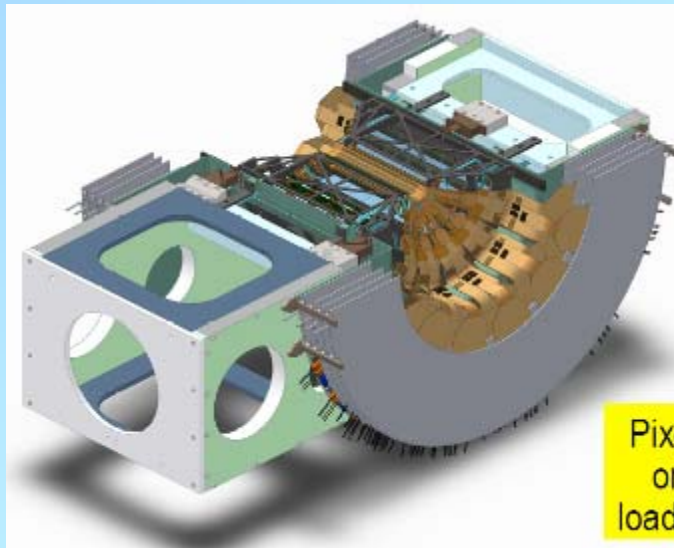
PHENIX



Start loading
frame Sept. 15th



Stripixel layers L3/L4
on both halves
loaded by Sept 21st



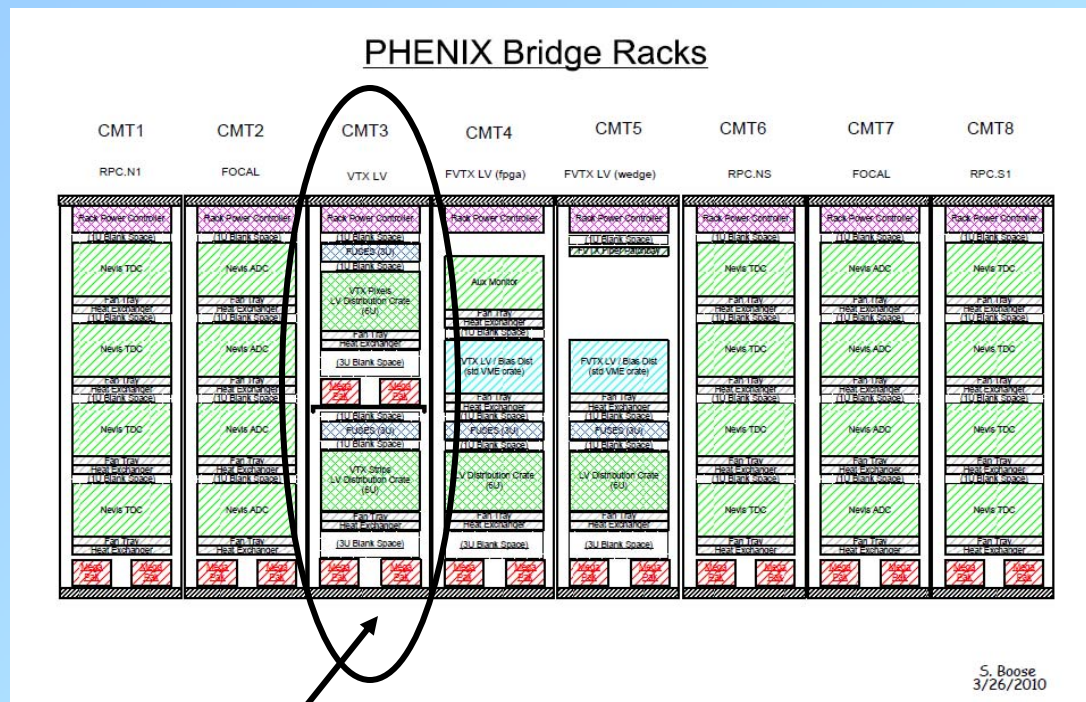
Pixel layers L1/L2
on both halves
loaded by Sept 30th

8/26/2010

TECHNICAL SUPPORT NO-0

Bridge Work this shutdown

TECHNICAL SUPPORT 2010

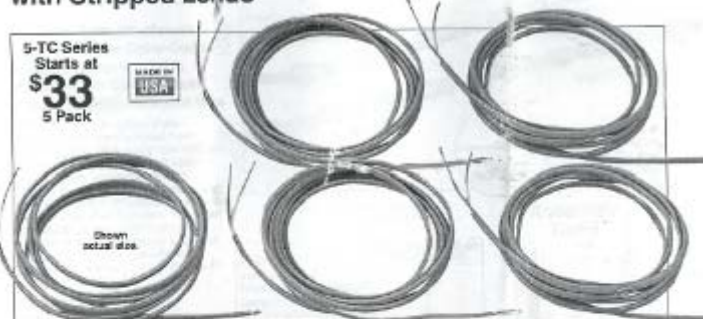


This rack to be installed this summer

1. HBD, RXNP Racks to be removed intact
2. Remove electric panels from 2 north sections of bridge
3. Tempooary support for water pipes and cable tray
4. Remove 2 north sections of bridge to enable absorber installation
5. Reinstall 2 north sections, reconnect plumbing and cable trays to 2 north sections of bridge
6. Upgrade electric service to support 8 racks
7. Install 1-3 racks for VTX/ FVTX electronics

Ready-Made Insulated Thermocouples with Stripped Leads

5-TC Series Starts at \$33 5 Pack



- Available from Stock in Convenient 5-Packs
- PFA, Kaptan®, or Glass Braid Insulation
- 20, 24, 30, 36 and 40 AWG Wires
- 1 and 2 m (40 and 80") Lengths Standard
- NIST Calibration Available
- OEM Quantities Available



Also Available TAP Adhesive Labels!
Thermocouple Adhesive Labels secure wire probes to surfaces. TAP adhesive labels have a thickness of 0.004 mm (0.0002") and can be used at a maximum temperature of 180°C (350°F). They are made of a polyimide film with a silicone pressure sensitive adhesive. Please see page F-10 for additional details and ordering information.



Model TAP, set of 100 adhesive labels, 500, shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		Price, Pack of 5	
Model No.	AWG Gauge	Diameter mm (in)	Insulation
STC-GG-(-)-20-(-)	20	0.81 (0.032")	Glass Braid
STC-GG-(-)-24-(-)	24	0.51 (0.020")	Glass Braid
STC-GG-(-)-30-(-)	30	0.25 (0.010")	Glass Braid
STC-GG-(-)-36-(-)	36	0.13 (0.005")	Glass Braid
STC-GG-(-)-40-(-)	40	0.08 (0.003")	Glass Braid
STC-TT-(-)-20-(-)	20	0.81 (0.032")	PFA
STC-TT-(-)-24-(-)	24	0.51 (0.020")	PFA
STC-TT-(-)-30-(-)	30	0.25 (0.010")	PFA
STC-TT-(-)-36-(-)	36	0.13 (0.005")	PFA
STC-TT-(-)-40-(-)	40	0.08 (0.003")	PFA
STC-KK-(-)-20-(-)	20	0.81 (0.032")	Kapton®
STC-KK-(-)-24-(-)	24	0.51 (0.020")	Kapton®
STC-KK-(-)-30-(-)	30	0.25 (0.010")	Kapton®

*Insert calibration J, K, R, or E. **Specify length, insert "20" for 1 m and "32" for 2 m length. Note: For GG or TT wire, add \$8 per additional 300 mm (12") per package of 5. For KK wire, add \$8 per additional 300 mm (12") per package of 5.

Ordering Examples: STC-TT-K-20-36, 5 pack, PFA insulated thermocouple, Type R calibration (CHROMAL-40-41-CHROMAL-42), 30 AWG, 1 m (40") long, stripped lead sections 244.

A-21

Thermocouple Alloy and Gold-Plated Copper Contacts for Multipin Connectors

☒ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

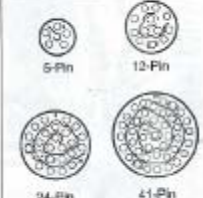
Alloy Type	Coding Color Letter	Pins (Male)	Price pkg of 20	Sockets (Female)	Price pkg of 20
Iron (+)	BLK M	HPC-IR-P	\$60	HPC-IR-S	\$100
Constantan (-)	YEL N	HPC-CO-P	100	HPC-CO-S	100
Copper (+)	RED C	HPC-CU-P	80	HPC-CU-S	80
CHROMEGA® (+)	WHT P	HPC-CH-P	68	HPC-CH-S	100
ALOMEGA® (-)	GRN R	HPC-AL-P	68	HPC-AL-S	100
*Gold-Plated (Uncompensated)	Color Bands†	HPC-AU-P	15	HPC-AU-S	20

Sealing plugs, model no. MTC-HP, \$.50 each.
* For use with non-thermocouple wires in same body.
Grammets available. Consult Sales Department for price and delivery.
† Pins have red, yellow and brown color bars; sockets have red, blue and black color bars.

G-53

Thermocouple Coupling

Recommended for Use With Stranded Wire



Contact cavities are identified with a spiral guide line indicating cavity sequence. The first and last cavities are numbered and every tenth cavity is bracketed.

contributing to an extended connector life.



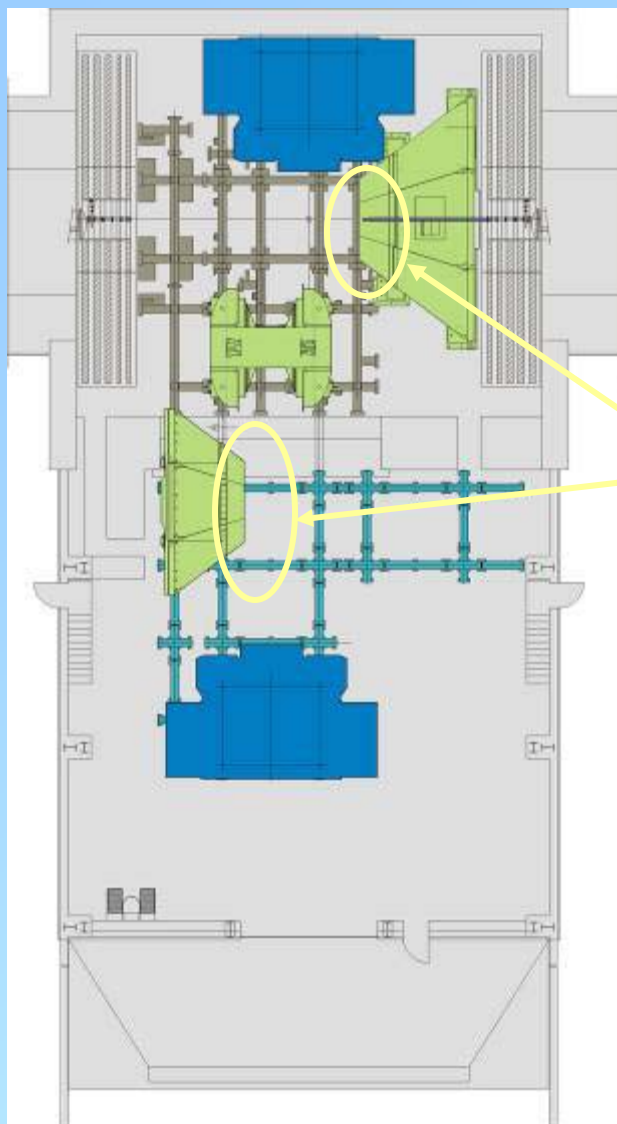
Multipin Connector Bodies* ☒ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Number of Cables	MC Male Cord	Price	FC Female Cord	Price	FF Female Flanged	Price	Backshell Cable Clamps**	Price
5	MTC-5-MC	\$43	MTC-5-FC	\$76	MTC-5-FF	\$41	MTC-5-SHL	\$57
12	MTC-12-MC	46	MTC-12-FC	90	MTC-12-FF	46	MTC-12-SHL	41
24	MTC-24-MC	53	MTC-24-FC	100	MTC-24-FF	60	MTC-24-SHL	53
41	MTC-41-MC	63	MTC-41-FC	110	MTC-41-FF	60	MTC-41-SHL	53
55	MTC-55-MC	79	MTC-55-FC	113	MTC-55-FF	77	MTC-55-SHL	57

* Backshell not included. Order from next page.
** Isothermal cable clamps provide effective support for the cable at the male or female connector and prevent heating and pulling.
Ordering Examples: MTC-55-FC, multipin connector body, \$113. MTC-24-FF, female flanged connector, \$50.

G-61



Remaining mid shutdown work:
MuTr and MuTrigger Stations 1
and lower sections of stations 2
& 3, North & South

Mid shutdown work on EC, & WC is finished. Work
on MuTr and MuTrigger Stations 1, 2 and 3, North
and south continues.

New Beampipe Pre-Installation Prep

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Receive bp back at BNL	Done?	Mapes, Riggers to move from rec'g to CAD
Final acceptance and inspection bp and sections	8/31/2010	Mapes, Riggers to move from CAD to PHENIX
Fabricate BP installation and survey tools/fixtures	8/31/2010	CS

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Design fixtures, techniques and mockups for installation, alignment and survey	Done?	PHENIX Design & Engg
Beampipe & VTX Installation Work Permits	Done?	D. Lynch, CAD Safety Approval
BigWheel Fabrication & Procurement	9/3/2010	PHENIX, CS
Receive, inspect, test, rework and qualify components, assembly tools and fixtures, electronics for racks, cables, cable management etc.	In Progress	PHENIX Design & Engg
Fabricate fixtures, techniques and mockups for installation, alignment and survey	9/15/2010	CS, PHENIX Techs
Assemblies, Mock installations/alignments, bench tests	8/31/2010	PHENIX Techs
Receive & inspect components (installation, support, alignment & Survey)	9/15/2010	PHENIX Techs
Cooling system procurement	9/30/2010	Pisani Coordinate with CAD Cooling Water, Electricain

RPC3 Pre-Installation Prep

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Assemble, test and burn-in 1/2 octants	9/1/2010	In Progress @ RPC Factory

Beampipe De-installation

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Remove north 3 to 5 transition	Done	PHENIX Techs

Absorber Installation

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Test Absorber installation fixture	Done	Hynan & Gaffney to witness
Weld Absorber support stubs into flower pot exterior cavity	In Progress/9/2	CS Field welding; coordinate with Al Farland
Preassemble Absorber Segments	9/3/2010	
Install North Absorber	9/3/2010	Use small manlift
Install South Absorber	9/10/2010	Use small manlift

8/26/2010

Beampipe De-installation

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Move CM south and east	Done	PHENIX Techs
Remove north 3 to 5 transition	In Progress	PHENIX Techs

Absorber Installation

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Test Absorber installation fixture	8/20/2010	Hynan & Gaffney to witness
Weld Absorber support stubs into flower pot exterior cavity	8/31/2010	CS Field welding; coordinate with Al Farland
Preamble Absorber Segments	8/31/2010	
Install North Absorber	8/26/2010	Use small manlift
Install South Absorber	9/3/2010	Use small manlift

8/26/2010

New Beampipe installation

PHENIX TECHNICAL SUPPORT NO-0

Task	Due By	NOTES
Prepare north 3 to 5 transition for installation with roller guides, bakeout wrap and thermocouples	8/27/2010	PHENIX Techs & CAD Vacuum Techs
Install north 3 to 5 transition in MMN	8/31/2010	PHENIX Techs
Prep CM North and South for Absorber and install	9/10/2010	PHENIX Techs
Labor Day Lab Holiday	9/6/2010	Enjoy
Install new Be pipe in CM on temp supports	9/14/2010	PHENIX Techs
Move CM back to beamline & connect new Be BP to 1-5/8 transition and bellows and north 3-5 transition	9/17/2010	PHENIX TechsPHENIX Techs
Move CM to run position	9/17/2010	PHENIX Techs
Prealign Be/Alum pipe with transitions attached on new BP supports At MPC north, BBC south and north nosecone	9/17/2010	Surveyors & PHENIX Techs
Prepare south 3 to 5 transition for installation with roller guides, bakeout wrap and thermocouples	9/20/2010	PHENIX Techs
Install south 3 to 5 transition, bellows and 1-5/8 to 3" transition in MMS	9/21/2010	PHENIX Techs
Move MMS back into IR on beamline	9/22/2010	PHENIX Techs
Move CM south, slide Transition ass'y in MMS north and connect to new Be BP	9/23/2010	CAD Vac & PHENIX Techs
Move CM and MMS north and install south spool. Leak check. Move MMS South	9/23/2010	PHENIX Techs
Install temporary bakeout supports	9/23/2010	PHENIX Techs
Install bakeout blankets and monitoring	9/23/2010	CAD Vacuum Techs
Bakeout New BP and activate NEG coating	9/30/2010	CAD Vacuum Techs
Leak check BP	9/30/2010	CAD Vacuum Techs
Re-install MPC's & BBC's including Cables and services	10/15/2010	PHENIX Techs Concurrent
Move CM to run position	10/15/2010	PHENIX Techs
Final alignment of new BP	10/29/2010	PHENIX Techs

8/26/2010

VTX Installation, VTX Services and Electronics



TECHNICAL SUPPORT 2010

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Presurvey VTX $\frac{1}{2}$ detectors in Chemistry lab	10/1/2010	PHENIX TECHS and BNL Survey, 1 week
All VTX detector, support, installation, alignment and survey parts and assemblies complete, ready for installation	10/1/2010	All sources
Install and align VTX rails perpendicular to beam line	10/8/2010	PHENIX Techs
Install and align west half detector module	10/15/2010	PHENIX Techs & Survey →
Install and align east half detector module	10/22/2010	PHENIX Techs & Survey →
Install mechanical support structures for VTX services and electronics	10/29/2010	PHENIX Techs Concurrent Effort →
Install Cable trays	10/29/2010	→
Install racks	10/29/2010	→
Install chiller	10/29/2010	→
Install cables, plumbing	10/29/2010	→
Connect cables and plumbing	10/29/2010	V →
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy →
Test, de-bug and commission	12/1/2010	PHENIX Techs

8/26/2010

RPC3 South Prep, Early Shutdown

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Drill and tap $\frac{1}{2}$ octant and rotating piston mounting points	In progress	PHENIX Techs

RPC3 South Installation

TECHNICAL SUPPORT 2010

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Install pitch control rails on pedestal and gap 5 east & west inner walls	In Progress	PHENIX Techs
Install upper suspension support hardware	8/27/2010	PHENIX Techs
Install $\frac{1}{2}$ octants, 2 at a time in accordance with work plan/work permit		
<i>Transport $\frac{1}{2}$ octants 2 at a time from RPC factory to south tunnel on angled transport carts</i>		
<i>Transfer $\frac{1}{2}$ octants from angled transport carts one at a time to temporary free standing and re-orienting roller fixture (fore and aft wheels and axel)</i>		
<i>Lift (and re-orient if appropriate) $\frac{1}{2}$ octant and install into base structure, previously installed $\frac{1}{2}$ octant or upper suspension hardware as appropriate per work plan</i>		
<i>Pre-align each $\frac{1}{2}$ octant as installed</i>		
<i>Perform electrical integrity tests before proceeding to next pair of $\frac{1}{2}$ octants</i>		
<i>After all $\frac{1}{2}$ octants are in place and tested, join east and west halves of full south station 3 detector and align to survey markers</i>		
	In Progress, expected completion by 9/16/2010	Riggers & PHENIX Techs

RPC3 South Integration

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Final survey	10/8/2010	Surveyors →
Install new cable trays and piping supports	10/15/2010	Electrician, PHENIX Techs earlier if possible →
Re-install MuID wiring and pipes	11/5/2010	PHENIX Techs →
Install south thermal/vapor barrier	11/19/2010	CAD contractor →
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy
Re-install MuID gas rack	11/30/2010	PHENIX Techs →
Commissioning and final acceptance tests	11/30/2010	RPC Group
Install RPC3 HV, LV and signal wiring and gas lines	11/30/2010	PHENIX Techs
Install RPC3 South gas distribution rack	11/30/2010	PHENIX Techs
Re-install shielding	11/30/2010	Riggers
Install RPC3 South environmental controls (heaters and thermostats)	11/30/2010	Electrician

Shutdown 2010 Other Work

TECHNICAL SUPPORT 2010

<u>Task support</u>	<u>Due By</u>	<u>NOTES</u>
RPC3 North unfinished business	9/30/2010	Electronics and cabling, grounding issues, environmental controls
MuTrigger FEE unfinished business	9/30/2010	MMS cable trays,
DC/PC maintenance/repair (after EC is in)	11/15/2010	FEM and wire troubleshooting and repairs, major efforts will require longer shutdown
Thanksgiving and Black Friday Holiday	11/25 & 11/26/2010	Enjoy
PHENIX Survey Review	11/30/2010	PHENIX Techs & Survey
Procedure Updating	11/30/2010	PHENIX Engineering
Gas Mixing House maintenance & Repair	11/30/2010	Tasks TBD
PHENIX Infrastructure maintenance, repair, upgrade	11/30/2010	TBD
Gas Pad: new gas storage details	11/30/2010	Tasks TBD
Gas Pad services for new dewar support, maintenance and improvements	11/30/2010	TASKS TBD

Shutdown 2010 Other Work (Cont'd)

TECHNICAL SUPPORT 2010

<u>Task support</u>	<u>Due By</u>	<u>NOTES</u>
AH Flood prevention improvements	11/30/2010	Tasks TBD
IR Bridge Electrical service upgrade	11/30/2010	Support for 4 full racks in 2010, 4 more (8 total) in future, PHENIX Techs & Electrician
RPC Factory Support	11/30/2010	Tasks TBD
Rack Room upgrade	11/30/2010	Includes New EB Switch
PHENIX Design Documentation	11/30/2010	PHENIX Engineering
CM Crane	11/30/2010	Currently on hold for re-evaluation
CM alignment stops	11/30/2010	TBD
Gas System maintenance, repair, upgrade	11/30/2010	Tasks TBD
Other subsystem maintenance, repair/upgrade	11/30/2010	Tasks TBD
Future upgrade support	11/30/2010	RPC1, FVTX, FOCaI, other Tasks TBD
Prepare for Run 11: EC platforms fold up in AH, fold down in IR, EC Equipment lift take down in AH, Install in IR, Install shielding wall base and build shielding wall & Install MMS Lampshade	11/30/2010	Normal end of shutdown tasks, typically taking 3-4 weeks: Riggers & Carpenters, CAD Techs
Run 11 Start	12/1/2010	
End of Shutdown Party	~12/3/2010	

2010 Building Maintenance Issues

TECHNICAL SUPPORT 2010

- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall and over door between control room and elect. ass'y room.



Nothing New This Week

- Generator room roof repair in progress
- Trailer maintenance in progress (new exterior siding)
- Roof leak in laser room and IR (southeast corner)
- Flooding in AH/ Driveway heaving [Lake PHENIX]



Summer Sunday Spruce Up



8/26/2010



To be located in front of
AC on east side of GMH

Proposed shed addition to
Gas Mixing house

Nothing New This Week

House/store
for R134A to
keep up with TOF West &
RPC requirements. No
flammable gas, standard
shed with heat. Barn style
doors desirable. Place on
asphalt with no threshold to
allow bottle management
with pallet lifter.

PHENIX Procedure Review Current Status:

148 Procedures Identified

- 85 Made Inactive (not currently in use, will require revision to re- activate if and when necessary, available for reference purposes)
- 9 CAD procedures relevant to PHENIX, all are available and available on the CAD web site
- 42 Procedures (1 of these soon needs updating)
- 11 Proposed/Draft Procedures (never previously formalized) (3 are ready for review)

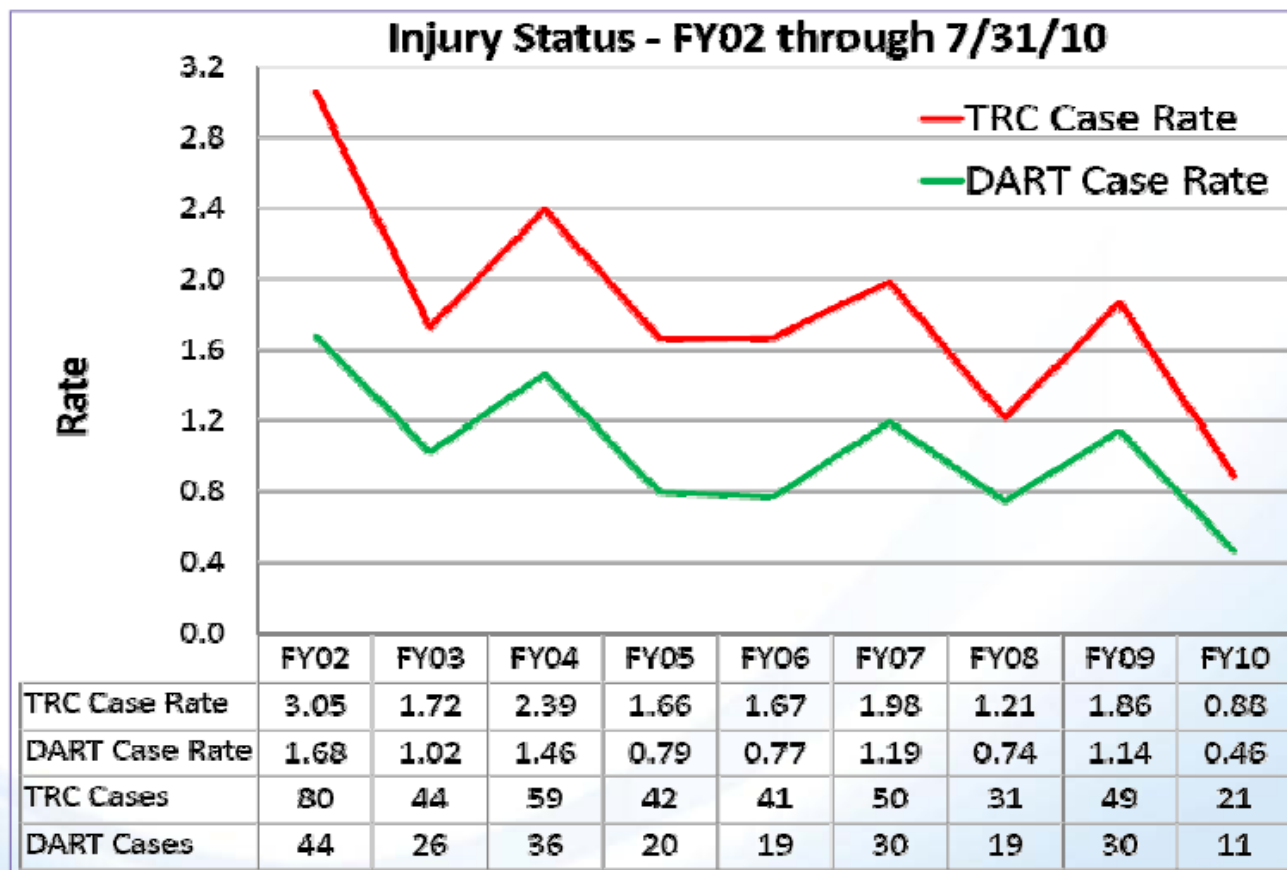
Web retrieval of latest procedures now available from PHENIX Internal:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm

TECHNICAL SUPPORT 2010

How are we doing?

Our overall safety performance is the best in our history

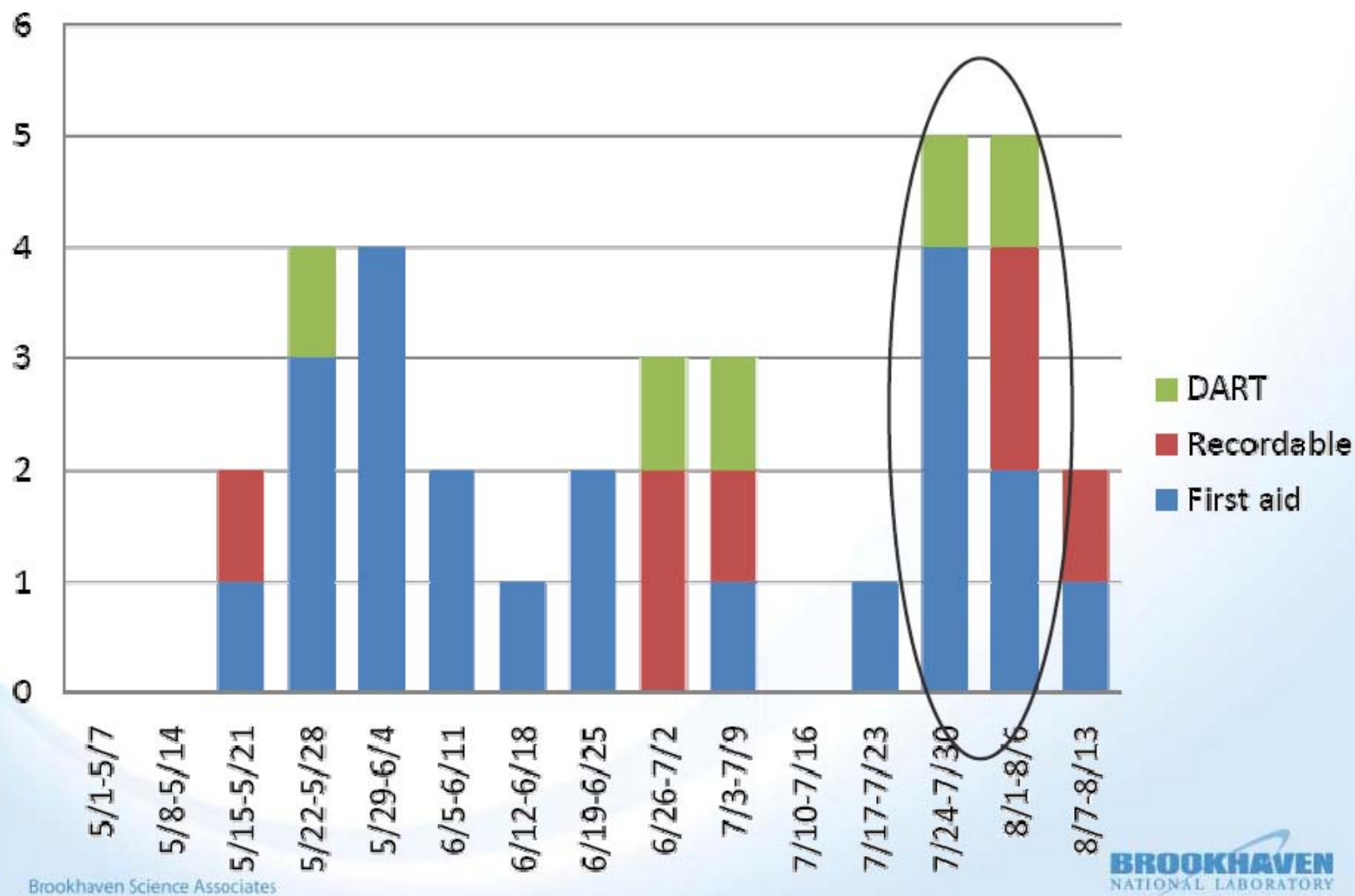


Brookhaven Science Associates

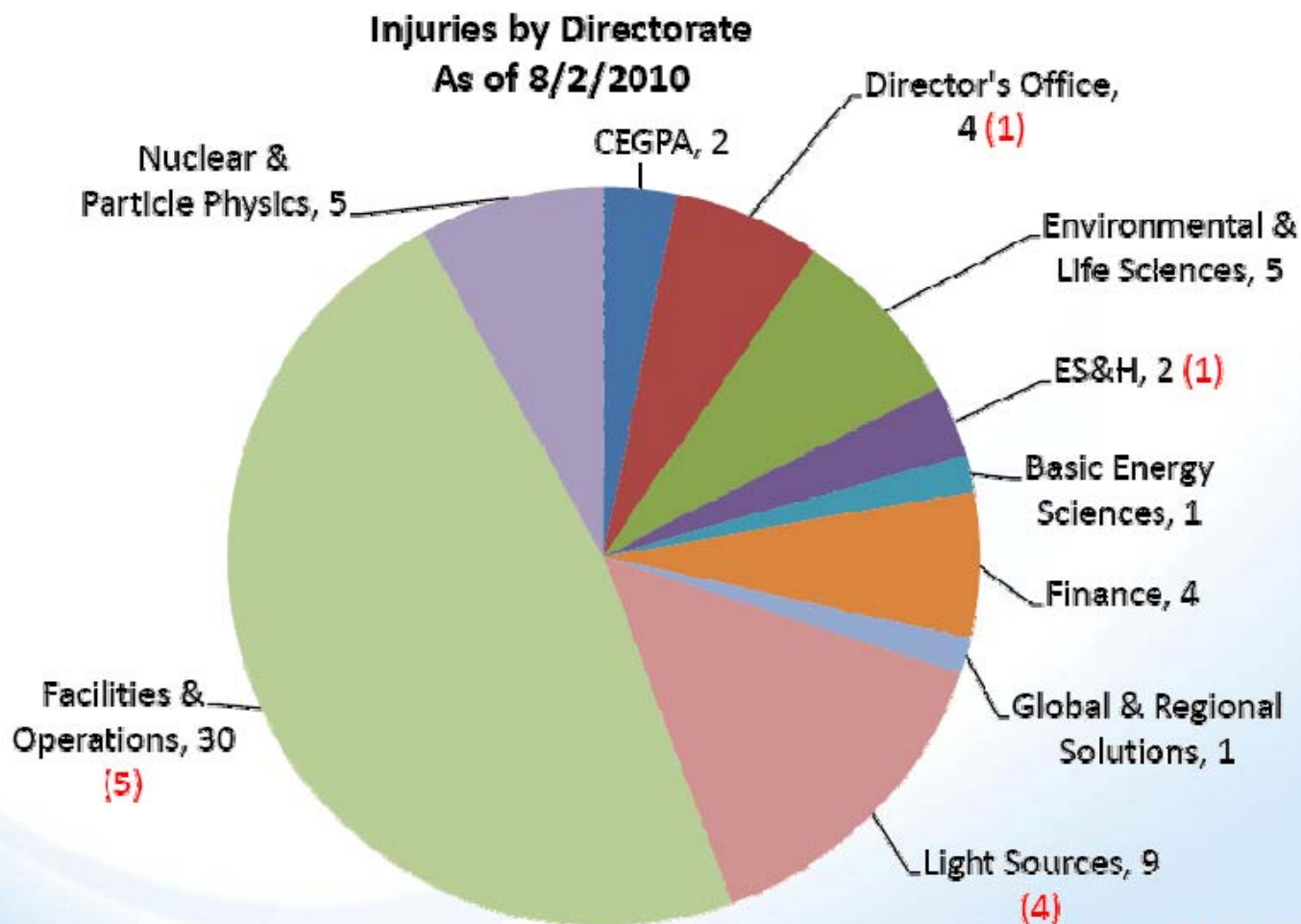
BROOKHAVEN
NATIONAL LABORATORY

7

Injuries per week since 5/1/2010



Where are injuries occurring?



Brookhaven Science Associates

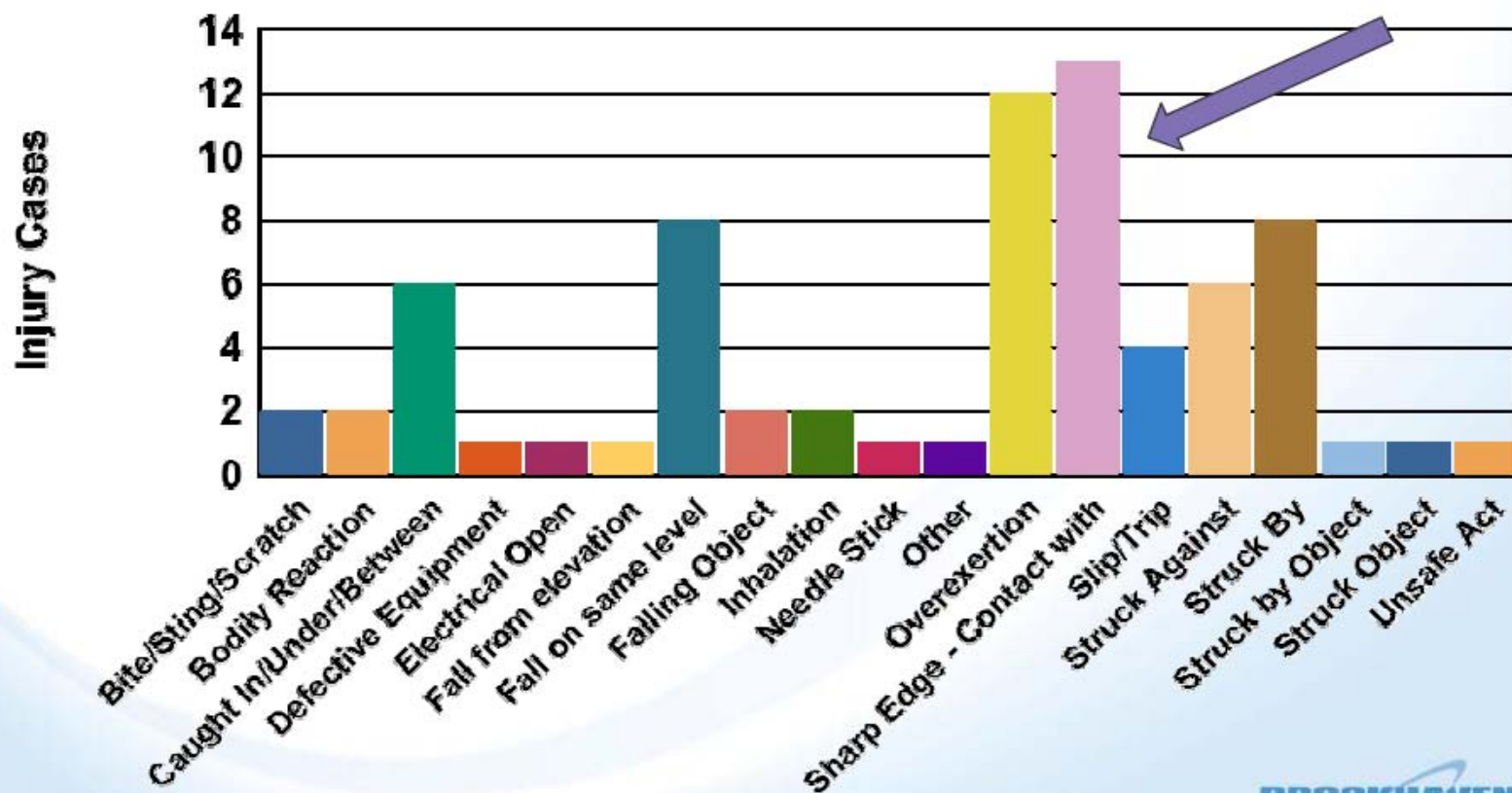
Note: black is total number of injuries, red indicates contractor injuries

BROOKHAVEN
NATIONAL LABORATORY

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What types of injuries are occurring?

Injuries by Injury Cause
As of 8/17/2010

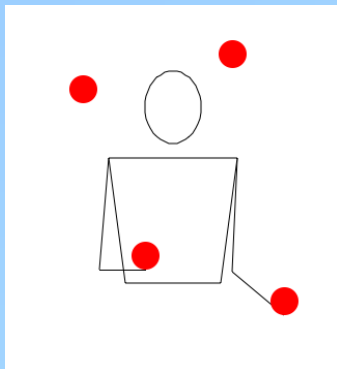


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Where To Find PHENIX Engineering Info

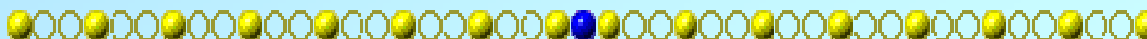


We've got a lot of things going on at the same time so be careful, be safe and we'll get through the tough parts soon



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm



Completed Tasks

TECHNICAL SUPPORT NO-O

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Prepare Installation Plan	Done	Done
Design Absorber Installation fixtures & tools	Done	PHENIX Engg & Design
Receive purchased parts	Done	PHENIX Techs
Fabricate PHENIX parts	Done	CS, PHENIX Techs
Receive and inspect CS fabricated parts	Done	PHENIX Techs
Prepare work permit for installation	Done	Currently at CAD Safety Approval
Pre-Assemble base components at PHENIX	Done	PHENIX Techs
VTX Installation Plan	Done	PHENIX Design & Engg
Installation Review (ESRC)	Done	Set up With Y. Makdisi
Specify components, assembly tools and fixtures, electronics for racks, cables, cable management etc.	Done	PHENIX Design & Engg
End of run 10 (Party)	Done	Done
Commissioning Tests (HV, Mixed gas and Freon only)	Done	Done
Choreograph removal of old beampipe and installation of new (final)	Done	Done
Beampipe Installation Review (Final)	Done	Done

8/26/2010

Completed Tasks, Continued

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
DAQ Tests	Done	PHENIX
Purge Gas From Detectors	Done	PHENIX, CAD remove LOTO
Install and align VTX rail attachment hardware to CM	Done	Using the HBD I-beam attachment hardware
Install and align VTX rails parallel to beam line	Done	Using the HBD I-beams
Remove BP Collar	Done	Done
Move MMS south	Done	PHENIX Techs
Prep EC for move to EC	Done	PHENIX Techs
Close North and South BP gate valves and lock closed for until new BP is installed	Done	CAD Vac Group
Open and disassemble wall	Done	Done
Remove EC ladder and fold platforms	Done	Carpenters & Riggers
Move EC to AH	Done	PHENIX Techs
Install cart	Done	PHENIX Techs
Move Collars to AH	Done	PHENIX Techs
Install decking	Done	PHENIX Techs
Remove/relocate shielding	Done	Riggers
Remove crystal palace & vapor barrier	Done	CAD
Install Manlift	Done	PHENIX Techs
Send beampipe to CERN for NEG Coating	Done	CAD Vacuum

8/26/2010

Completed Tasks, Continued

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Remove RPC2 Prototype, support brackets, cabling & Piping	Done	In Progress PHENIX Techs, CAD Techs , Electrician
Remove MMS east vertical lampshade	Done	CAD Techs
4th of July Holiday & Floating Holiday	Done	
Remove HBD's and HBD cables Remove RXNP's and cables	Done	PHENIX Techs ASAP
Remove/relocate shielding	Done	Riggers
Remove crystal palace & vapor barrier	Done	CAD
Inspect Gap 5 south for legacy items/problems	Done	PHENIX Techs
Design BP installation and survey tools/fixtures	Done	
Receive BP transitions & spool back at BNL from SAES after NEG Coating	Done	
Remove BBC's	Done	PHENIX Techs ASAP
Remove wiring, walkovers, FCAL and scintillator hardware that would otherwise interfere with installation	Done	PHENIX Techs
4th of July Holiday	Done	Enjoy
Address legacy items/problems as convenient prior to shutdown start	Done	PHENIX Techs in progress

8/26/2010

Completed Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Remove RPC prototype	Done	PHENIX/CAD Techs
Position MMS for Vacuum break	Done	PHENIX Techs
Break vacuum on north side of MMS	Done	CAD Vac Techs
Remove south bellows	Done	CAD Vac Techs
Gas Pad expansion completion (grouting)	Done	Tasks TBD
Remove MPC's	Done	PHENIX Techs ASAP
Install Temporary supports for old BP	Done	Supports TBD
Move MMS north, remove spool and south3-5 transition	Done	PHENIX Techs
Move the MMS south & Prep MMS for move to AH	Done	Begin MMS prep with shutdown start
Move CM south, remove north bellows	Done	PHENIX & CAD Vac Techs
Move old Be bp south into MMS and move CM north	Done	PHENIX Techs
Move MMS to shutdown park position	Done	PHENIX Techs
Remove old Be BP	Done	PHENIX Techs
VTX Survey Plan	Done	Consult w/ F. Karl
Install lighting & relocate sensors as necessary	Done	Electrician in progress

8/26/2010

Completed Tasks, Continued

TECHNICAL SUPPORT 20-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Temporarily relocate, re-position or otherwise address interfering piping, cable trays	Done	PHENIX (w/ CAD Help?), Electrician
Pre-survey $\frac{1}{2}$ octant reference points	Done	PHENIX Techs & Surveyors
Build/install access and work platforms for walk on top of MuID steel including stairs from MMS eyebrow	Done	Carpenters
Final cleaning and prep of gap 5 for grouting	Done	PHENIX Techs
Position lifting equipment in tunnel	Done	Riggers
Install and align base structures on east and west sides of gap 5	Done	PHENIX Techs & Riggers
Prepare for grouting	Done	PHENIX Techs & Masons
RHIC Summer Sunday Tour	Done	
Fabricate/procure Absorber Installation fixtures & tools	Done	PHENIX Techs
Fabricate Absorber Details	Done	Vendor & CS - RPC Group and PHENIX
Move CM south and east	Done	PHENIX Techs
Pre-installation orientation meeting with masons and riggers	Done	PHENIX Techs Masons & Riggers

8/26/2010

Completed Tasks, Continued

TECHNICAL SUPPORT NO-0

<u>Task</u>	<u>Due By</u>	<u>NOTES</u>
Move east and west base structures into south tunnel and assemble on east and west sides of pedestal respectively.	Done	Riggers & PHENIX techs
Install grout	Done	PHENIX Techs & Masons